

No. 637,431.

Patented Nov. 21, 1899.

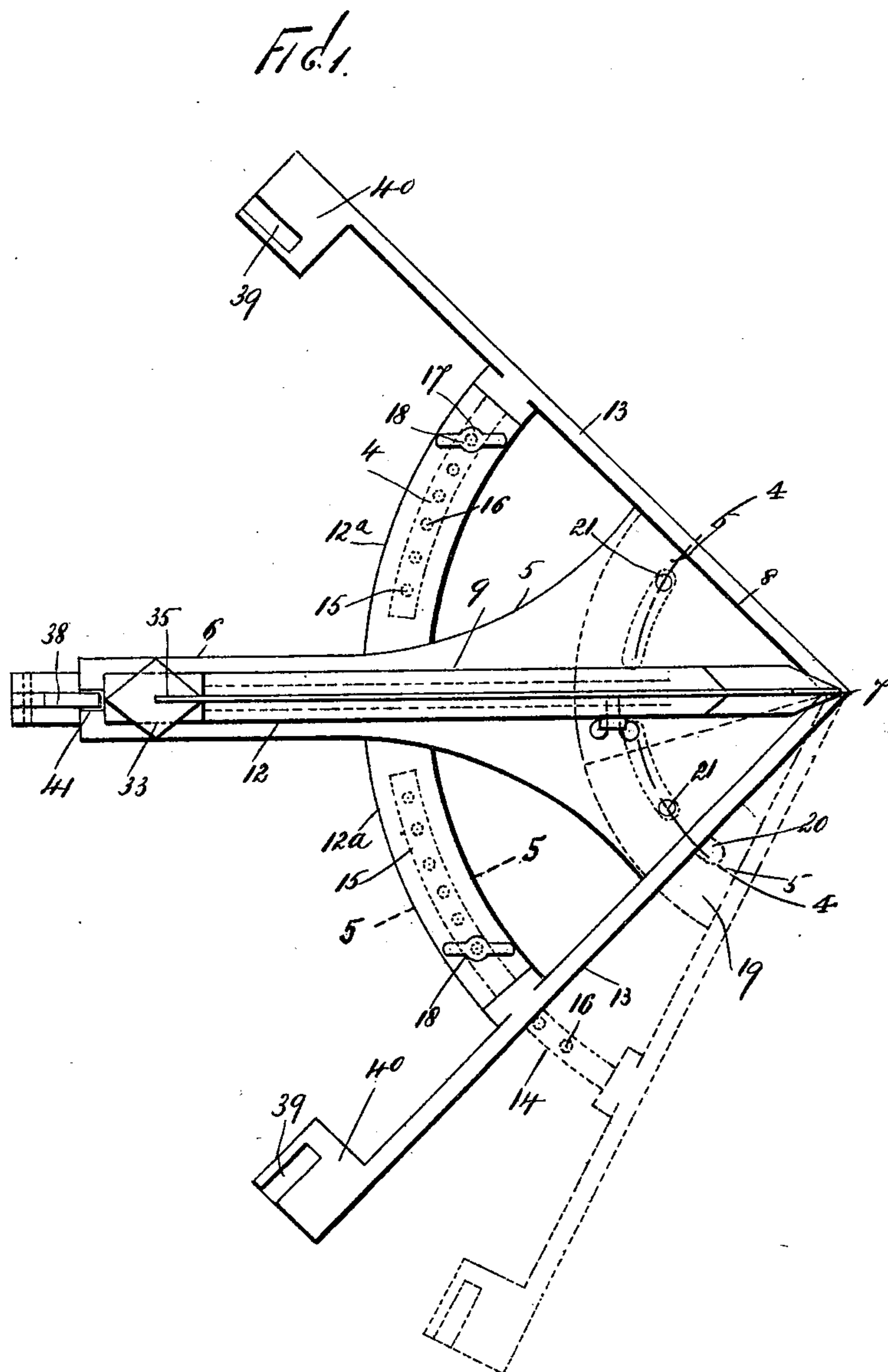
A. J. TOBIE.

DEVICE FOR FORMING PLASTER CORNICES.

(Application filed Feb. 4, 1899.)

(No Model.)

2 Sheets—Sheet 1.



WITNESSES

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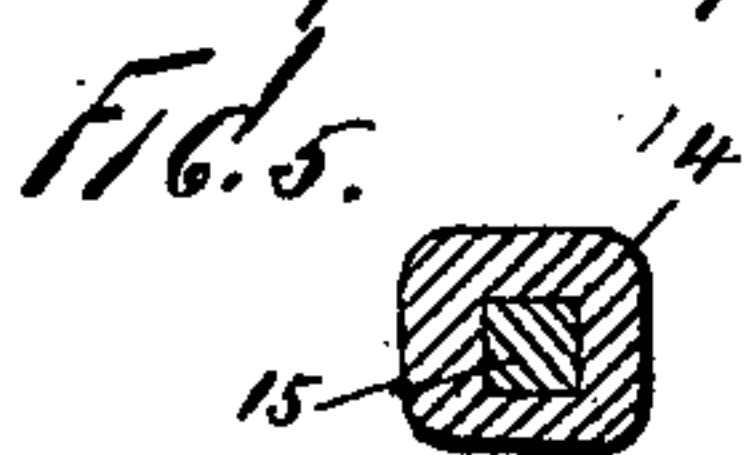
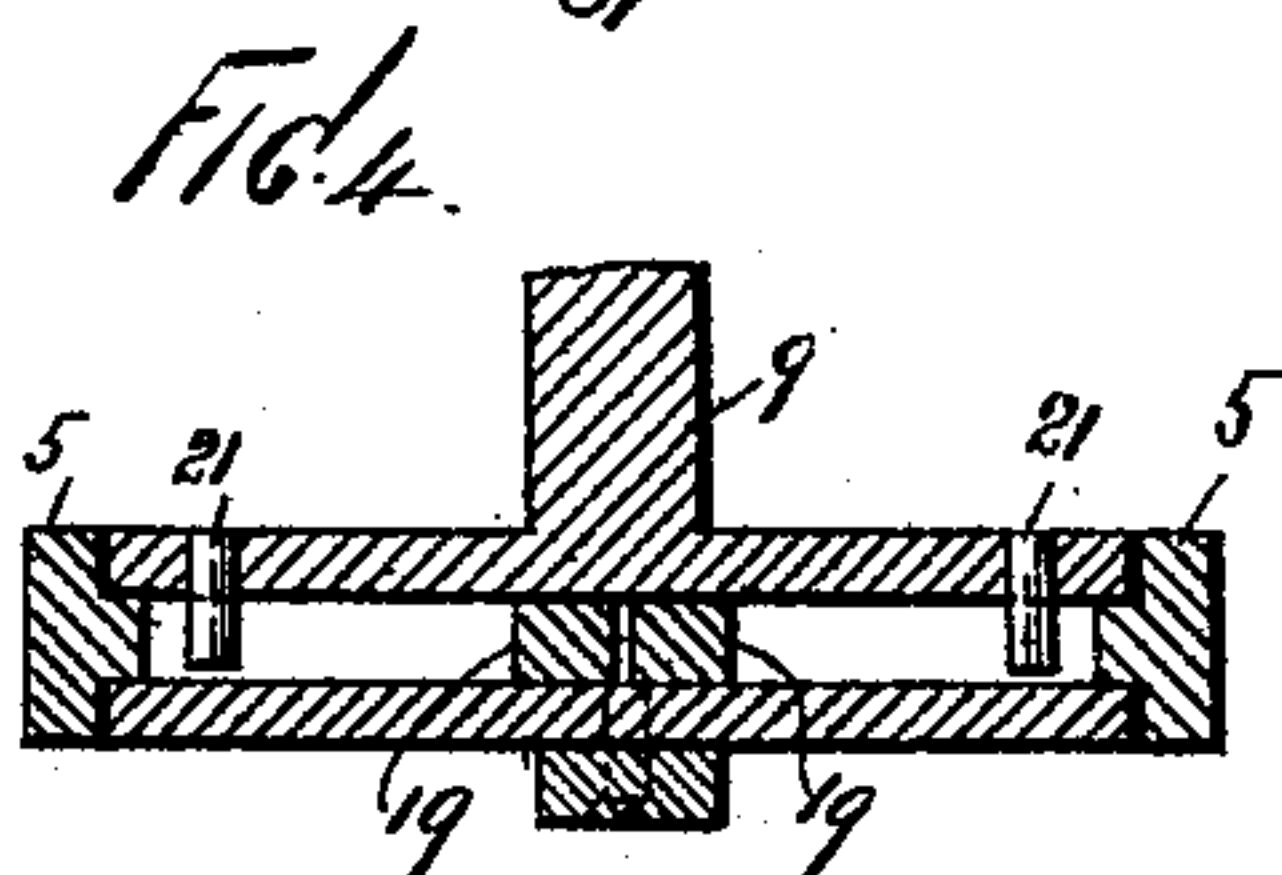
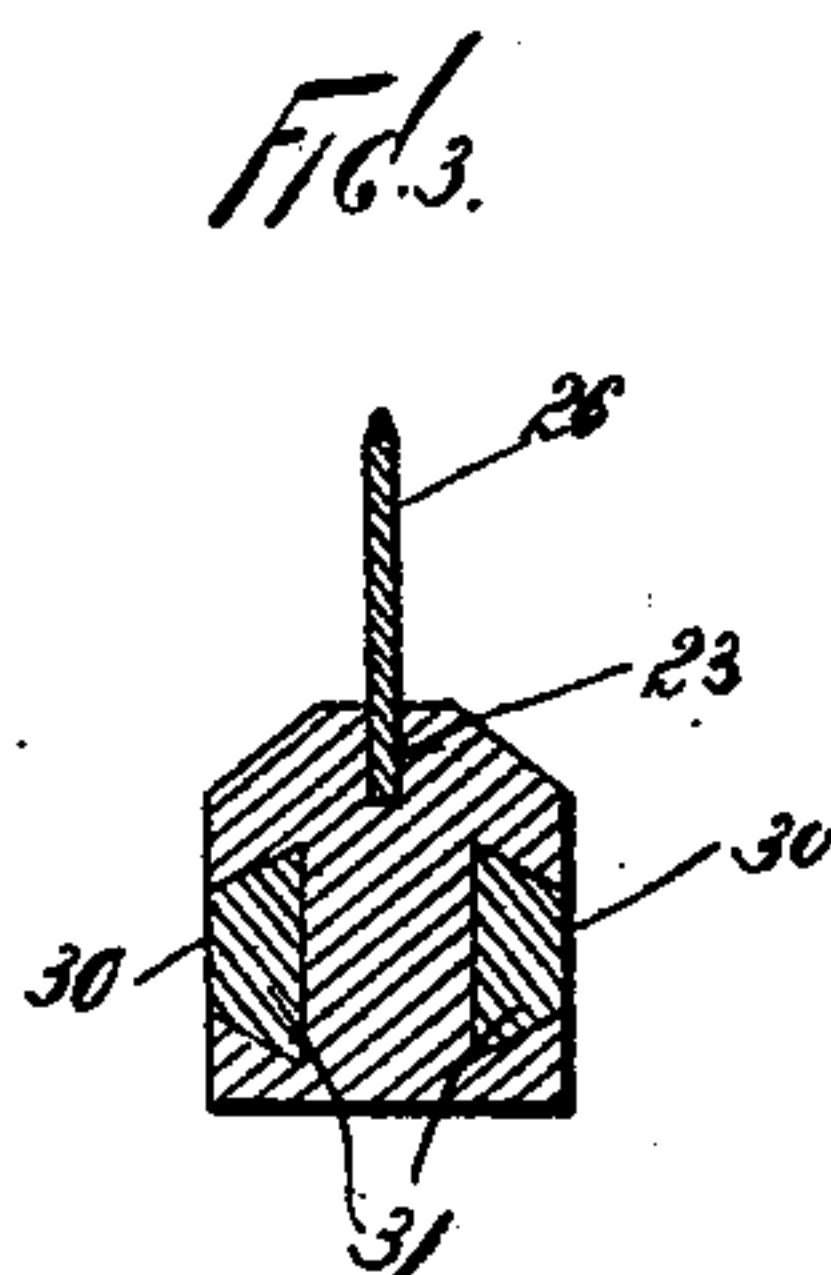
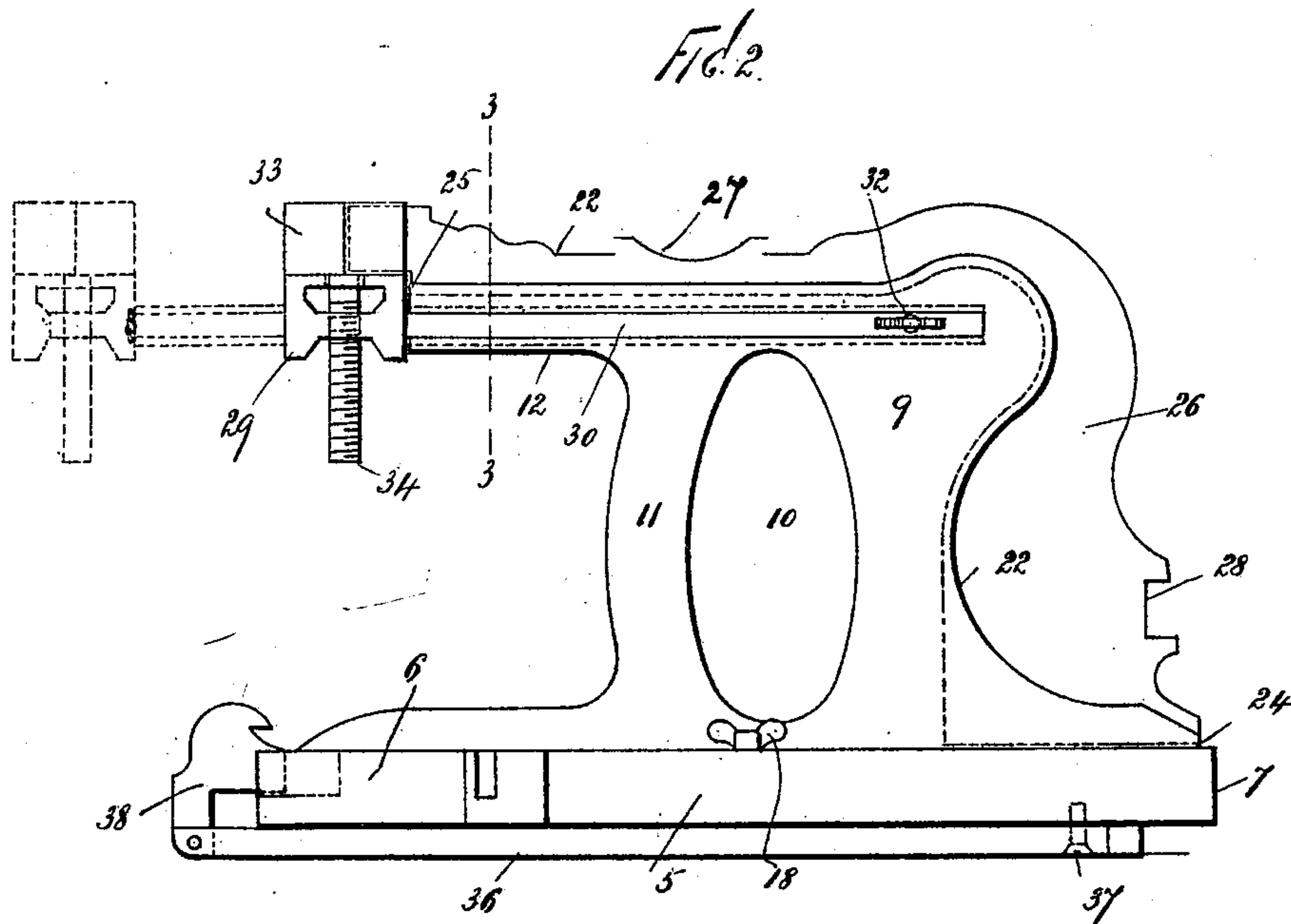
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2 Sheets—Sheet 2.



WITNESSES

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UNITED STATES PATENT OFFICE.

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DEVICE FOR FORMING PLASTER CORNICES.

SPECIFICATION forming part of Letters Patent No. 637,431, dated November 21, 1899.

Application filed February 4, 1899. Serial No. 704,533. (No model.)

To all whom it may concern:

Be it known that I, ALBERT JOHN TOBIE, a citizen of the United States, residing at New York, (Williams Bridge,) in the county of New York and State of New York, have invented certain new and useful Improvements in Devices for Forming Plaster Cornices, of which the following is a full and complete specification, such as will enable those skilled in the art to which it appertains to make and use the same.

This invention relates to devices for forming plaster cornices for rooms, halls, and other compartments in dwellings and other buildings; and the object thereof is to provide an improved device of this class for forming or extending plaster cornices into and around the corners.

It is a well-known fact that in forming plaster cornices by the means now employed for that purpose the cornices cannot be extended into or around a corner except by hand, and this is a difficult operation and involves much time and labor; and one of the objects of this invention is to provide a device by means of which this operation may be performed and the cornice in or around a corner made as quickly and easily as any other part of said cornice.

The invention is fully disclosed in the following specification, of which the accompanying drawings form a part, in which—

Figure 1 is a plan view of the device which constitutes my invention; Fig. 2, a side view thereof; Fig. 3, a cross-section on the line 3 3 of Fig. 2; Fig. 4, a section on the line 4 4 of Fig. 1, and Fig. 5 a section on the line 5 5 of Fig. 1.

In the drawings forming part of this specification the separate parts of my improvement are designated by the same numerals of reference in each of the views, and in the practice of my invention I provide a device for the purpose specified which comprises a base or support 5, provided at its rear end with a backwardly-directed extension 6 and at its front end with a corner at 7, which is formed by the two sides 8, which meet at an angle of ninety degrees to form the corner 7.

The body portion of the base or support 5, by reason of the construction above described, is substantially triangular in form, and said

base or support is provided with an upright longitudinal central mold-holder 9, having a central elliptical opening 10, whereby a handle 11 is formed, and the top of the upright mold-holder 9 is provided with a backwardly-directed extension 12, which is in the same vertical plane as the backwardly-directed extension 6 of the base or support 5.

In practice the parts of the device hereinbefore described, and especially the base or support 5, are preferably made of metal, and said base or support 5 is provided at a predetermined distance from the point 7 thereof and at about the point where the backwardly-directed extension 6 begins and on each side with a segmental arm 12^a, and the curve of said segmental arms is a part of a circle the center of which is the point 7.

At each side of the base or support and at the outer end of the segmental arms 12^a is placed an adjustable arm 13, and these arms are each provided with a segmental bar 14, which moves in a corresponding longitudinal segmental opening 15 in the corresponding segmental arms 12^a, and the segmental bars 14 are provided with holes 16, and each of the segmental arms 12^a is provided adjacent to its outer end with a corresponding hole 17, and the holes 16 are adapted to register with the hole 17, and a headed pin 18 is provided which is adapted to be passed through the hole 17, and by means of this construction the outer ends of the arms 13 may be adjusted with reference to the segmental arms 12^a. The arms 13 are also provided at the ends thereof adjacent to the points 7 with a triangular plate 19, and the base or body portion 5 is provided at its outer end with a horizontal slot or opening 20, adapted to receive the triangular plates 19, and said triangular plates 19 are each provided with a segmental slot 20, and passed through the body portion of the base or support 5 at each side is a pin 21, and these pins also pass through the slots 20 in the triangular plates 19, and by means of this construction the angle formed at the points 7 by the arms 13 may be adjusted as desired in order to adapt the device to inner corners of more than ninety degrees.

The mold-holder 9 is preferably irregular in form at the front end, as shown at 22, and is provided with a groove 23, which prefer-

ably extends entirely around it from the point 24 to the point 25, and in practice the mold 26 is cut or stamped from sheet metal and set into said groove.

5 The upper portion 27 of the mold forms the cornice on the ceiling and the front end portion 28 the cornice on the wall, and it is frequently necessary to extend the upper portion 27, so as to provide a wide ceiling-cornice, and for this purpose I provide a head-
10 block 29, having side arms 30 of tongue-and-groove form in cross-section, and these arms 30 move in corresponding grooves 31, formed in the sides of the backwardly-directed extension 12 of the mold-support 9, and one of
15 said arms 30 is provided at its forward end with a set-screw 32 for securing the head-block 29 in any desired position.

Mounted on the head-block 29 is a mold-
20 holding block 33, which is connected with the head-block 29 by a screw 34, and the mold-holding block 33 is provided in the front thereof with a vertical slot 35, adapted to receive the rear end of the mold 26.

25 In Fig. 2 I have shown the head-block 29 and the parts connected therewith extended backwardly in dotted lines, and by means of this construction I provide for the use of a mold, the upper portion of which may be of
30 any desired length.

In forming the cornices of outwardly-directed corners it is necessary to secure to the wall strips or supports for guiding the molding device and forming a support therefor
35 and which project beyond the corner, and with my improvement I provide a guide-plate 36, which is pivoted near the point 7, as shown at 37, to the bottom of the body portion or support 5 and which extends backwardly beyond the backwardly-directed extension 6 of said body or support and which
40 is extended backwardly slightly beyond the rear ends of the arms 13, and this guide-plate 36 is provided at its rear end with a pivoted catch 38, which is adapted to enter slots or recesses 39 in heads 40, formed on or secured to the rear ends of the arms 13, and also a
45 corresponding notch or recess 41 in the rear end of the backwardly-directed extension 6 of the body portion or support 5.
50

The normal position of the plate 36 when not in use is that shown in Figs. 1 and 2, in which it is held beneath the longitudinal central portion of the body or support 5 and the
55 backwardly-directed extension 6 thereof; but whenever it is desired to use said guide-plate in forming a cornice around an outwardly-directed corner the said plate is turned beneath one of the arms 13 and locked in connection therewith by turning the catch 38
60 into the corresponding slot or recess 39, and the said plate and the arm 13, beneath which it is locked, form a slideway for the strips or supports secured to the wall, as described,
65 and on which the cornice-forming device may be moved outwardly beyond a corner, so as

to complete the cornice to the corner, and in this operation the cornice-forming device rests on said strips or supports, and the plate 36 bears against the outer side thereof and
70 prevents the lateral movement of said device as it is being slid outwardly on said strips or supports.

In practice the device is held by the handle 11, and the segmental arms 12^a may also be
75 used as handles, and the device is moved over or along the plaster of the cornice while the latter is in a plastic condition, and the cornice is formed by the mold 26, as will be readily understood, and by means of this device the
80 cornice in the inner corners may also be quickly and easily formed, all that is necessary being to move the device up into the corner, the mold 26 being so held as to cut or mold the corners clear into such corner. It
85 will also be apparent that the cornice around an outer corner may be similarly formed, all that is necessary being to provide the strips or supports for guides, hereinbefore described, which will support the device while it is being
90 moved outwardly beyond the corner far enough to form the proper cornice on the ceiling, as set out in the specification.

My improvement is simple in construction and operation and perfectly adapted to accomplish the result for which it is intended,
95 and it will be apparent that changes in and modifications of the construction described may be made without departing from the spirit of my invention or sacrificing its advantages.

Having fully described my invention, I claim as new and desire to secure by Letters Patent—

1. A device for the purpose herein described, consisting of a body portion or support provided with a backwardly-directed extension, and a front corner of ninety degrees formed by the adjacent sides thereof, side
105 arms held flush with said adjacent sides, and the rear ends of which are laterally adjustable, and an upright mold-holder connected with said body portion or support longitudinally thereof and extending into said corner, substantially as shown and described. 115

2. The herein-described cornice-forming device, consisting of a body portion or support which is oblong in form, and which is provided with a front corner formed by the opposite sides of said body portion or support,
120 side arms supported adjacent to the said sides of said body or support, and the rear ends of which are laterally adjustable, and an upright mold-holder connected with said body or support longitudinally thereof and extending into
125 said corner, substantially as shown and described.

3. The herein-described device, comprising a body portion or support having a corner of ninety degrees formed by the opposite sides
130 thereof, and the rear portion of which is extended backwardly, side arms connected with

the opposite sides of said body or support and meeting at said corner, and the rear ends of which are laterally adjustable, and a mold-holder connected with said body or support longitudinally thereof, and projecting into or over said corner, substantially as shown and described.

4. A device of the class described, comprising a body or support which is oblong in form and provided with a front corner of ninety degrees formed by the opposite sides thereof, said body or support being extended backwardly and provided with a vertical mold-holder arranged longitudinally thereof and terminating at said corner, side arms connected with said body or support and meeting at said corner, and the rear ends of which are laterally adjustable, substantially as shown and described.

5. A device of the class described, comprising a body or support which is oblong in form and provided with a front corner of ninety degrees formed by the opposite sides thereof, said body or support being extended backwardly and provided with a vertical mold-holder arranged longitudinally thereof and terminating at said corner, side arms connected with said body or support and meeting at said corner, and the rear ends of which are laterally adjustable, the top of said mold-holder being also projected backwardly, and provided with a head-block and having means for holding the rear end of the mold, and which is adjustable longitudinally of the mold-holder, substantially as shown and described.

6. A device of the class described, comprising a body or support which is oblong in form

and provided with a front corner of ninety degrees formed by the opposite sides thereof, said body or support being extended backwardly and provided with a vertical mold-holder arranged longitudinally thereof and terminating at said corner, side arms connected with said body or support and meeting at said corner, and the rear ends of which are laterally adjustable, the top of said mold-holder being also projected backwardly and provided with a longitudinally-adjustable head-piece having means for holding the rear end of the mold, a guide-plate pivoted to the bottom of said body or support adjacent to the point thereof, and the rear end of which is adapted to be connected with the rear ends of either of said arms, substantially as shown and described.

7. A device for the purpose herein described, consisting of a body portion or support provided with a handle, and a front corner formed by the adjacent sides of said body portion or support, and a mold-holder arranged longitudinally of said body portion or support, and projecting vertically over said corner, and a guide-plate pivotally connected with the bottom of said body portion or support adjacent to said corner, and the rear end of which is laterally adjustable, substantially as shown and described.

In testimony that I claim the foregoing as my invention I have signed my name, in presence of the subscribing witnesses, this 3d day of February, 1899.

ALBERT JOHN TOBIE.

Witnesses:

F. A. STEWART,

A. C. McLOUGHLIN.